

QK31

L38

Cal. of plants

Cincinnati, Ohio

Variet



A Catalogue
of
Plants
Native or naturalised
in the vicinity
of Cincinnati, Ohio

by
Thomas G. Lea

I have to add the maps to this Catalogue, a list of
plants made out as far as the acreage land, which
was in the Spring of 1841, and a list of the
plants found in the city of Cincinnati in 1841.

I had intended to have published this Catalogue
in 1841, but as some of our species are not
yet known, have deferred it. If anything
should prevent me from completing it,
I wish my brother Isaac to have it
published in 1842. (Doubtless it will be
published in 1842.)

ACADEMY
NAT. SCI.
PHILA.
MS. 139
I

Catalogue of Plants
native or naturalized in the vicinity
— Cincinnati — by Thomas G. Lea

Exogenous Plants

Ranunculaceae

Clematis virginiana, Linn.

Viorna, Linn.

Anemone virginiana, Linn.

Ex var *Hepatica triloba*, Chaix (var. *obtusata* Z. var.)

Ranunculus Flammula, Linn.

abortivus, Linn.

agrestis, Linn.

repens, Linn.

micranthus, Nutt.

recurvatus, Poir.

Caltha palustris, Linn.

x *Enemion biternatum*, Raf.

Aquilegia Canadensis, Linn.

Nat. *Delphinium consolida*, Linn.

tricorne, Michx.

Actaea alba, Bigel.

Cimicifuga racemosa, Ell.

cc. var. *Trautvetteria palmata*, Fish & Meyer, var.

note *Thalictrum dioicum*, Linn. (var.?)

note *Cornuti*, Linn.

note *anemoneoides*, Michx.

13-20 *Hydrastis Canadensis*, Linn.

2 - Magnoliaceae -

Liriodendron Tulipifera, Linn.

3 Anonaceae

Uvaria triloba, Torr. & Gray, *Podocarpus triloba*

4 Menispermaceae

Menispermum Canadense, Linn.

5 Berberidaceae

Leontice thalictroides, Linn.

note *Jeffersonia diphylla* Pers. syn.

3 *Podophyllum peltatum*, Linn. (see Cronq. p. 7)

6 Ceratophyllaceae

note *Ceratophyllum demersum*, Linn. (see *echinatum* p. 7)

7 Nelumbiaceae

note *Nelumbium luteum*, Willd.

8 Nymphaeaceae

Nuphar advena, Ait.

Papaveraceæ

Meconopsis diphylla, D.C.

Sanguinaria Canadensis, Linn.

10 *Fumariaceæ*

Diselytra Cucullaria, D.C.

Canadensis, D.C.

Corydalis aurea, Willd.

11 *Cruciferae*

(Cruciferae)

Lind. Key 49

Cheiranthus hesperidoides, Torr. & Gray Torr. Gr.

Nasturtium palustre, D.C.

nataro, D.C. var. (see Bot. Soc. Linn. N.Y. p. 123)

Arabis dentata, Torr. & Gray

lavigata D.C. var.

Canadensis, Linn. (agrees with a specimen from Tallinn)

Cardamine rotundifolia, Michx. var. a, b

hirsuta, Linn. var. *virginica*

Sudoviciana, Hook.

Dentaria laciniata, Muhl. var.

diphylla, Michx.

Sisymbrium officinale, Scop.

Sinapis nigra, Linn.

Draba verna, Linn.

Black mustard

Camelina sativa, Crantz

Lepidium virginicum, Linn.

11-17

Capsella Bursa-pastoris, Moench.

12

Capparidaceæ

Polanisia graveolens, Raf.

13

Polygalaceæ

Polygala Senega, Linn. var. *latifolia*

14

Violaceæ

note
locality*Viola palmata*, Linn.*cucullata*, Ait. (var.?)*striata*, Ait.*pubescens*, Ait. (var.?)*Canadensis*, Linn.ex
note*Tricolor*, Linn. (var.?)

2-7

Solanum concolor, Ging.

15 Hypericaceæ

ex
for dolabriforme*Hypericum prolificum*, Linn. var. B*corymbosum*, Muhl.*mutilum*, Linn. = *H. parviflorum* Willd.*H. perforatum*

16

Elaeagnaceæ

Angelica dichotoma, Michx. (var.)

17. Caryophyllaceæ

Mollugo verticillata, Linn.

Stellaria media, Smith

pubera, Michx.

longifolia, Muhl.

ex *Cerastium viscosum*, Linn. (var.)

mutans, Raf.

Silene stellata, Ait.

ex *nivea*, D.C. var. *lanceifolia*

ex *Antirrhina*, Linn. Catch fly

virginica, Linn. var. a

noted *Lychnis Githago*, Lam.

~~*Saponaria officinalis*, Linn.~~

18. Portulacaceæ (25)

Portulaca oleracea, Linn.

ex & *Claytonia virginica*, Linn. var.

19. Linaceæ

Linum virginianum, Linn.

20. Geraniaceæ

Geranium maculatum, Linn.

21 Balsaminaceæ

Impatiens pallida, Nutt. touch-me-not
fulva, Nutt.

22 Limnanthaceæ

note *Floerkea proserpinacoides*, Willd. = *F. uliginea* Muhl.

23 Oxalidaceæ

Oxalis violacea, Linn.

ex
note

corniculata? Linn.

stricta? Linn.

24 Zanthoxylaceæ

Zan. in H. N. Am.
Zan. in Conn. & Ill.

ex

Ptelea trifoliata, Linn.

25 Anacardiaceæ

Rhus typhina, Linn.

glabra, Linn.

(*Copallina*)

benzoinifera, D.C. : *R. vernix*, Linn.

see H. N. Am. p. 681

Toxicodendron Linn. (var.)

Copallina Linn. - (var. found by R. Blake)

note

26 Malvaceæ

(38)

ex

Malva rotundifolia, Linn.

abutilon (Avicenna), Gart.

Sida spinosa Linn.

divica, Cav.

note

Hibiscus militaris, Cav.
27 ~~Tiliaceae~~

Tilia Americana, Linn.

Vitaceae

Vitis

Ampelopsis quinquefolia, Muhl.

Aceraceae

Acer saccharinum, Linn.

dasycarpum, Ehrh.

rubrum, Linn.

Negundo aceroides, Moench.

Hippocastanaceae

Aesculus glabra, Willd.

flava, Ait.

Celastraceae

Staphylea trifolia, Linn.

Celastrus scandens, Linn.

Euonymus atropurpureus, Jacq.

Rhamnus lanceolata, Pursh.

Coccythrus Americanus, Linn.

Leguminosae

Lathyrus venosus Muhl.

Phaseolus diversifolius, Pers.

Apios tuberosa, Moench.

Amphicarpa minima,

Robinia Pseudacacia Linn.

Psoralea onobrychis, Nutt.

Trifolium pratense, Linn.

Viperis, Linn.

Astragalus Canadensis, Linn.

Phaca neglecta, Torr. & Gray

Desmodium nudiflorum, D.C.

acuminatum, D.C.

pauciflorum, D.C.

canescens, D.C.

Dillenii, Darl.

cuspidatum, Torr. & Gray

paniculatum, D.C.

rotundifolium, D.C.

9
Lespedeza reticulata, Pers.

hirsuta = *polystachia*, Michx.

violacea, (Pers.)

procumbens, (Michx.)

Baptisia australis, (R. Brown)

leucantha, (Torr. & Gray)

Cypripedium Marylandica, (Linn.)

Gymnocladus Canadensis, (Lam.)

Gleditsia triacanthos, (Linn.)

Cercis Canadensis, (Linn.)

Rosaceae

Potentilla Norvegica, (Linn.)

Canadensis, (Linn.) var. *simplex*

Fragaria virginiana, (Ehrh.)

Agrimonia eupatoria, (Linn.)

parviflora, (Ait.)

Geum virginianum, Linn.

var. *virginicum*, Torr. & Gray

Rubus occidentalis, Linn.

trivialis, Michx.

villosus, Ait.

Rosa lucida, (Ehrh.) var.

Rosa Carolina (Linn.)

rubiginosa (Linn.) introd. Sweet Brier

setigera (Michx.) = R. rubifolia (Brown) Ohio multiflora

Spiraea opulifolia (Linn.) Ninebark

Aruncus (Linn.)

lobata (Murr.)

Gillenia stipulacea (Nutt.)

Suborder, Pomaceae

Crataegus Crus-galli (Linn.) Cock-spur Thorn

coccinea (Linn.) var. populifolia (Tord. Gray)

var. ? mollis (Tord. Gray) Red haw

tomentosa (Linn.)

punctata (Jacq.)

Pyrus coronaria (Linn.) Crab-Apple

Suborder Amygdaleae

Cerasus, ~~argentea (L.)~~ = C. Virginiana (Michx.)

Prunus Americana (Marshall) Red Plum

Melastomaceae

Rhexia virginica (Linn.)

Sythraceae

Ammanium alabastrinum
Ammanium humilis (Michx.)

Onagraceæ

~~Trichomanes~~

Epilobium corolatum (Muhl.)

Gaura biennis (Linn.)

Oenothera biennis (Linn.) Evening Primrose

~~Ludwigia~~

~~*alternifolia*~~ (Linn.)

Ludwigia palustris (Ell.)

Circea Lutetiana (Linn.) Fairchants Nightshade

Suborder: Haloragææ

Papifloraceæ

Papiflora lutea (Linn.) Papion Flower

Cucurbitaceæ

Sicyos angulatus (Linn.)

Grossulaceæ

Ribes cynosbati (Linn.) Wild Gooseberry
Florida

Cruciferae

Sedum ternatum (Michx.) Stone-crop

Penthorum sedoides, Linn.

Saxifragaceae

Saxifraga virginensis (Michx.)

Hemerocallis Americana, (Linn.) Alum-root

Mitella diphylla (Linn.)

Hydrangea arborescens (Linn.) ^{Suborder Hydrangeae} *H. vulgaris* (Michx.)
 " *cordata* (Linn.) ^{var. vulgaris (Torr. & Gray)} *umbelliferae* ^{to cordata (Pursh)}

~~*Erigeron bulbosa* Nutt. (see next page)~~ ^{Suborder Orthospermeae}

Sanicula Marylandica (Linn.)

Cicuta maculata, (Linn.) Water Hemlock

bulbifera, (Linn.)

{ *Thaspium cordatum* (Torr. & Gray) =

{ *Zizia cordata* (Koch)

{ *Thaspium barbinode* (Nutt.)

Zizia integrifolia (D.C.)

Zizia aurea Koch.

Cryptotaenia Canadensis, (D.C.)

Linum latifolium, (Linn.)

Bupleurum rotundifolium, (Linn.)

~~*Thaspium barbinode* Nutt. (put above)~~

{ *Archangelica pirsuta* (Torr. & Gray) F. (Nutt.)

{ *Angelica trigonata* (Nutt.)

Archemora rigida (D.C.) Cow-bane

Pastinaca sativa (Linn.) Parsnep

Heracleum lanatum (Michx.) Cow-Parsnep

— Suborder Campylospermeae —
Cherophyllum procumbens (Lam.)
 " *fraturnieri* (Hook. & Arn.)

Osmorhiza longistylis (D.C.) Sweet Cicely

brevistylis (D.C.)
 — Suborder Celospermeae —
Erigeron bulbosa (Nutt.)

Araliaceae

Aralia racemosa (Linn.) Spikenard

Panax quinquefolium (Linn.) Ginseng

Cornaceae

Cornus florida (Linn.) Dogwood

sericea (Linn.)
paniculata (L'Her.)
circinata (L'Her.)

114
Solanaceæ

Physalis flavesceus (Pursh) Mispeltoe

Rubiaceæ

Galium trifidum Linn.

tinctorium Linn.

aparine Linn.

triflorum, Michx.

circegens, Michx.

Cinchonaceæ

Cephalanthus occidentalis, Linn.

Mitchella repens, Linn.

Hedyotis cœrulea, Hook. = *Thouastonia cœrulea*, ^{Linn.} ~~Hook.~~

Valerianaceæ

Tridax

~~Valeriana~~ *radiata* Michx.

var. *leiocarpa*

umbilicata Sull.

valeriana pauciflora

Dipsacæ

Dipsacus sylvestris, Linn.

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Stachys arvensis Moench

Stachys Moench

arvensis Linn.

pratensis Schultze, Linn.

media Linn.

serotina Linn.

geraniifolia Linn.

Stachys arvensis Linn.

Stachys arvensis Linn.

Stachys arvensis Linn.

Stachys arvensis Linn.

Stachys arvensis Linn.

Stachys arvensis Moench

Stachys arvensis Linn.

Stachys arvensis Linn. & *Stachys arvensis* Moench

Stachys arvensis Linn.

Stachys arvensis Linn.

Stachys arvensis Linn. - *Stachys arvensis* Moench

Stachys arvensis Linn.

Stachys arvensis Linn.

Stachys arvensis Linn.

Eupatorium caelestinum, Linn.

perfoliatum, Linn.

trifoliatum, Linn. - *Boissieria trifoliata*, Boiss.

altissimum, Linn.

virginicum, Linn.

serotinum, Linn.

paniculatum, Linn.

diversifolium, Linn.

laevigatum, Linn.

adenium, Linn.

scutellariifolium, Linn.

laetifolium, Linn.

occidentale, Linn.

diversifolium, Linn.

virginicum, Linn.

paniculatum, Linn.

serotinum, Linn.

altissimum, Linn.

virginicum, Linn.

paniculatum, Linn.

serotinum, Linn.

altissimum, Linn.

Chenopodium ...
Hydrocotyle ...
Portulaca ...

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Pyrolaceae

Pyrola maculata, Linn.

Monotropa lanuginosa, Michx.
uniflora, Linn.

Lobeliaceae

Lobelia leptostachys, D. C.

siphilitica

inflata, Linn.

cardinalis, Linn.

Campanulaceae

Campanula Americana

aparinoides, Pursh

amplexicaulis, Michx.

Ebenaceae

Diospyros virginiana, Linn.

Aquifoliaceae

Prinos verticillatus, Linn.

Oleaceæ

Fraxinus Sambucifolia, Willd.

acuminata, Lam.

quadrangulata, Willd.

Asclepiadeæ

Asclepias Syriaca, Linn.

amoena, Linn.

phytolaccoides, Lyon.

incarnata, Linn.

quadrifolia, Jacq.

tuberosa, Linn.

Gonolobus

Enslenia albida, Nutt.

apocynaceæ

Apocynum cannabinum, Linn.

hypericifolium

Gentianaceæ

Gentiana Saponaria, Linn.*quinqueflora**Horostonia coerulea*, Linn.*Sabbatia angularis*, Pursh.

Bignoniaceæ

Bignonia radicans, Linn.

Polemoniaceæ

Polemonium reptans, Linn.*Phlox paniculata*, Linn.*maculata*,*glaberrima*,*divaricata*, Linn.

Convolvulaceæ

Convolvulus Nil, Linn.*Sepium*, Linn.

Comolobus panduratus, Linn.

lacunosis, Spreng.

spithameus, Linn.

Cuscuta Americana, Linn.

Boraginaceæ

Lithospermum latifolium

Echinopspermum virginicum, Lehm.

Cynoglossum officinale, Linn.

virginicum, Linn.

Pulmonaria virginica, Linn.

Hydrophyllaceæ

Hydrophyllum virginicum, Linn.

Canadense, Linn.

macrophyllum, Nutt.

Nemophila paniculata

Phacelia fimbriata, Michx.

bispinnatifida, Michx.

Solanaceæ

Solanum nigrum, var. Linn.*Carolinense*, Linn.*Physalis viscosa*, Linn.*Datura Stramonium*, Linn.var. *Fatula*, Torr.*Verbascum Thapsus*, Linn.*Blattaria*, Linn.

Rhinanthaceæ

Pedicularis Canadensis, Linn. = *P. gladiata*, Michx.*pallida*, Pursh.

Scrophulariaceæ

Veronica serpyllifolia, Linn.*Beccabunga*, Linn.*Anagallis*, Linn.*pergrina*, Linn.*arvensis*, Linn.*Leptandra Virginica*, Linn.

Scrophularia Marilandica, Linn.

Mimulus ringens, Linn.

alatus, Linn.

Gratiola virginica, Linn.

Lindernia

Chelone glabra, Linn.

Penstemon pubescens, Nutt.

Collinsia verna, Nutt.

Capraria multifida

Gerardia tenuifolia

glauca, Eddy

Seimneria macrophylla, Nutt.

Orobanchaceae

Orobanche Americana, Linn.

uniflora, Linn.

Epiphegus Americanus, Nutt.

Verbenaceae

Verbena hastata, Linn.

urticaefolia, Linn.

stricta, Vent.

Zapania nodiflora, Lam.

Phryma leptostachya, Linn.

Labiatae

Mentha piperita

Canadensis, Linn.

Lanthes coeruleus, Michx.

Lycopus

virginicus, Linn.

Pycnanthemum pilosum, Nutt.

lanceolatum, Pursh.

Lophanthus scrophulariaefolius, Benth.

nepitoides, Benth.

Teucrium canadense, Linn.

Collinsonia canadensis, Linn.

Monarda fistulosa, Michx.

Blephilia hirsuta, Raf.

ciliata, Raf. - M. c

Synandra grandiflora, Nutt.

Leonurus cardiaca, Linn.

24
Lamium amplexicaule, Linn.

Stachys ?

Nepeta Cataria, Linn.

Glacoma, Benth.

Marrubium vulgare, Linn.

Hedeoma pulegioides, Linn.

Prunella vulgaris, Linn.

Scutellaria lateriflora, Linn.

canescens, Nutt.

cordifolia

nervosa, Pursh,

peruviana, Benth.

Acanthaceae

Justicia pedunculosa, Michx.

Ruellia strepera, Linn.

Pedaliaceae

Martynia proboscidea

Lentibulariæ

Utricularia minor, Willd.

Primulacæ

Dodecatheon integrifolium, Michx.

Lysimachia quadrifolia, Linn.

ciliata, Linn.

heterophylla, Michx.

Samolus Valerandi, Linn.

Plantaginacæ

Plantago major, Linn.

lanceolata, Linn.

Amarantacæ

Amaranthus hybridus, Linn.

spinosus, Linn.

Arisæa eclosioides, Willd.

Chenopodiaceæ

Chenopodium ambrosioides, Linn.

album, Linn.

29
Chenopodium anthelminticum, Linn.

Botrys, Linn.

Acnida, Linn.

Phytolaccaceae

Phytolacca decandra, Linn.

Polygonaceae

Polygonum aviculare, Linn.

erectum, Linn.

virginianum, Linn.

punctatum, Ell.

mitis, Pers.

Persicaria, Linn.

Pennsylvanicum, Linn.

lapathifolium, Linn.

amphibium, Linn.

sagittatum, Linn.

arifolium, Linn.

scandens, Linn.

Convolvulus

Rumex Acetosella, Linn.
crispus, Linn.
obtusifolius, Linn.

Laurinaceæ

Laurus Benzoin, Linn.
Sapafra, Linn.

Santalaceæ

Nyssa multiflora, Walt.

Aristolochaceæ

Aristolochia Serpentina, Linn.
Asarum Canadense, Linn.

Euphorbiaceæ

Euphorbia hypericifolia, Linn.*maculata**seplus*, Linn.*obtusata*, Pursh.*corollata*, Linn.*Acalypha virginica*, Linn.*Caroliniana*, Walt.

Urticaceæ

Urtica dioica, Linn.*pumila*, Linn.*Canadensis*, Linn.*Boehmeria**Parietaria Pennsylvanica*, Michx.*Cannabis sativa*, Linn.*Humulus Lupulus*, Linn.

Ulmaceæ

Ulmus americana, Linn.

fulva, Michx.

Celtis crasifolia, Lam.

Artocarpaceæ

Morus rubra, Linn.

Saururaceæ

Saururus cernuus, Linn.

Callitrichaceæ

Callitriche verna, Linn. var. *terrestris*

Aubreyi, Linn.

Populus laevigata, Michx.

grandidentata, Michx.

Salix discolor

nigra, Marsh.

grisca, Willd.

vitellina, Linn.

Carpinus Americana, Michx.

Ostrya virginica, Willd.

Platanus occidentalis, Linn.

Quercus imbricaria, Michx. Laurel oak

Leana, Nutt. Leaf oak

tinctoria, Bart. Black oak

coccinea, Wangenh. Scarlet oak

rubra, Linn. Red oak

palustris, Michx. Pin oak

alba, Linn. White oak

macrocarpa

bicolor, Willd. Swamp White oak

Castanea, Muhl. Chestnut oak

Corylus Americana, Walt.

Fagus sylvatica, Linn.

Juglandaceae

Juglans nigra, Linn.*cinerea*, Linn.*Carya sulcata*, Nutt.*amara*, Nutt.*porcina*, Nutt.*Juniperus* ^{*Conifera*} *regiana* Linn.

Endogonites

Hydrocharidaceae

Udora Canadensis, Nutt.

Orchidaceae

Goodyera pubescens, Brown.

Spiranthes cernua, Rich.

(*tortilis*, Rich. var.)

Triphora pendula, Nutt.

Orchis spectabilis, Linn.

Habenaria fissa, Brown.

Corallorhiza odontorhiza, Nutt.

multiflora, Nutt.

cernua, Nutt.

Aplectrum hyemale, Nutt.

Liparis liliifolia, Rich.

Cypripedium pubescens,

spectabile,

Iridaceae

Iris versicolor, Linn. var. *sulcata* Torr.
var. *communis*, Torr.

Sisyrinchium mucronatum, Michx.
anceps, Cavan.

Hydroxidaceae

Hypoxis erecta, Linn.

96. Dioscoreaceae

Dioscorea villosa,

97. Smilacae

Smilax hispida, Linn.

peduncularis, Muhl.

panduratus, Pursh.

rotundifolia, Linn.

Polygonatum multiflorum, Desf.

Smilacina racemosa, Desf.

Utricularia grandiflora, Smith

Trillium sepium, Linn.

erectum, Linn. var. *alba*, Pursh.

Asphodelaceae

Scilla esculenta

Allium cernuum, Roth.

Canadense, Linn.

tricoceum, Ait.

Liliaceae

Lilium Canadense, Linn.

Erythronium Americanum, Smitt.

albidum, Nutt.

Melanthaceae

~~Melanthium~~ ~~Leimanthium~~ Virginicum, ~~Willd.~~ Linn.

Commelinaceae

Commelina communis, Linn.

Tradescantia Virginica, Linn.

flexicosa, Raf.

Alismaceae

Alisma Plantago, Linn.

Sagittaria sagittifolia, Linn.

obtusata, Willd.

Pontederiaceæ

Heteranthera veniformis, R. and P.*Schollera graminea*, Bart.

Araceæ

Acorus Calamus, Linn.*Arum Dracontium*, Linn.*Triphyllum*, Linn.*Symplocarpus foetida*, Nutt.

Pistiaceæ

Lemna minor, Linn.*polyrhiza*, Linn.

Typhaceæ

Typha latifolia, Linn.*Sparganium Americanum*, Nutt.*ramosum*, Smith.

Fluviales

Caulinia fragilis, Willd.*Zannichellia*

Potamogeton natans, Linn.

pauciflorum, Pursh.

Juncaceae

Juncus effusus, Linn.

tenuis, Willd.

marginatus, Rostk.

polycephalus, Michx.

Luzula campestris, D.C.

Gramineae

Cerenafluitans Ell.

Digitaria sanguinalis, Scop.

Panicum nitidum, Lam.

dichotomum, Linn.

capillare, Linn.

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Panicum rectum, Roem. & Schult.

latifolium, Linn.

clandestinum, Linn.

proliferum, Lam.

Crus-galli, Linn.

Setaria viridis, Beauv.

glauca, Beauv.
Set. aristata

Agrostis vulgaris
" *oboliferus*

[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page.]

Trifolium pratense

Trifolium

Trifolium

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Trifolium

(43)

Cyperaceae

Cypereae

Sulichium spathaceum, Pers.

Cyperus flavescens, Linn.

diandrus, Torr. B. ? *castaneus*, Torr. Mon. N. Am. Cyp.

strigosus, Linn.

repens, Ell.

inflexus, Muhl.

Hyllisgia pumila, Michx.

Scirpaeae

Eleocharis palustris, Brown

obtusata, Schultes

acicularis, Brown

tenuis, Schultes

Scirpus lacustris, Linn.

atrovirens, Muhl.

Eriophorum, Michx.

lineatus, Michx.

Trichostylis mucronulata, Torr.

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Carex rosea, Schkuhr.

cephalophora Muhl.

alopecoidea, Fückerm.: = *cephalophora* var. *maxima* Desv.
vid. Sill. Hum. bot. 49 p. 39

sparganioides, Muhl.

Muhlenbergii, Schkuhr. (Muhl.)

vulpinoides, Michx.

multiflora, Muhl.

paniculata, Linn.

var. *teretiuscula*, Wahl.

bromoides, Schkuhr.

stellulata, Good

var. *deirpoides*, (Schkuhr.)

arida, Schw. & Torr.

Scoparia, Schkuhr.
festucacea, Schkuhr.
cristata, Schw.

straminea, Schkuhr.

crinita, Lam.

polytrichoides, Muhl.

Willdenovii, Schkuhr.

Stenacii, Kunth

aquarosa, Linn.

Shortii, Torr.

hirsuta, Willd.

virescens, Muhl.

gracillima, Schw.

Davisii, Schw. & Torr.

filiformis, Linn.

lanuginosa, Michx.

Pennsylvanica, Lam.

pubescens, Muhl.

Carex Hitchcockiana, Dewey
 laxiflora, Lam.

granularis, Muhl.

anceps, Muhl.

Carexana, Dewey,

oligocarpa, Schkuhr,

var. latifolia, Gray,

intumescens, Rudge, var. globularis, Gray,

Cepulina, Muhl.

tentaculata Muhl.

lacustris, Willd.

stenolepis, Torr. (is C. Frankii, Kunth
 vid. Sill. trim. 2. 46 p. 179)

striculata -

hystericina, Muhl.

Pseudo-Cyperus, Linn.

miliacea, Muhl.

Cryptogamae

Filices

Polypodiaceae

Polypodium hexagonopterum, Michx.

Onoclea sensibilis, Linn.

Aspidium macrostichoides, Willd.

Thelypteris, Willd.

Notholaenaceae

Goldianum

fragile

asplenoides

Wklidium rhizophyllum

angustifolium, Michx.

eburnum

thelypteroides

Pteris aquilina

Adiantum pedatum,

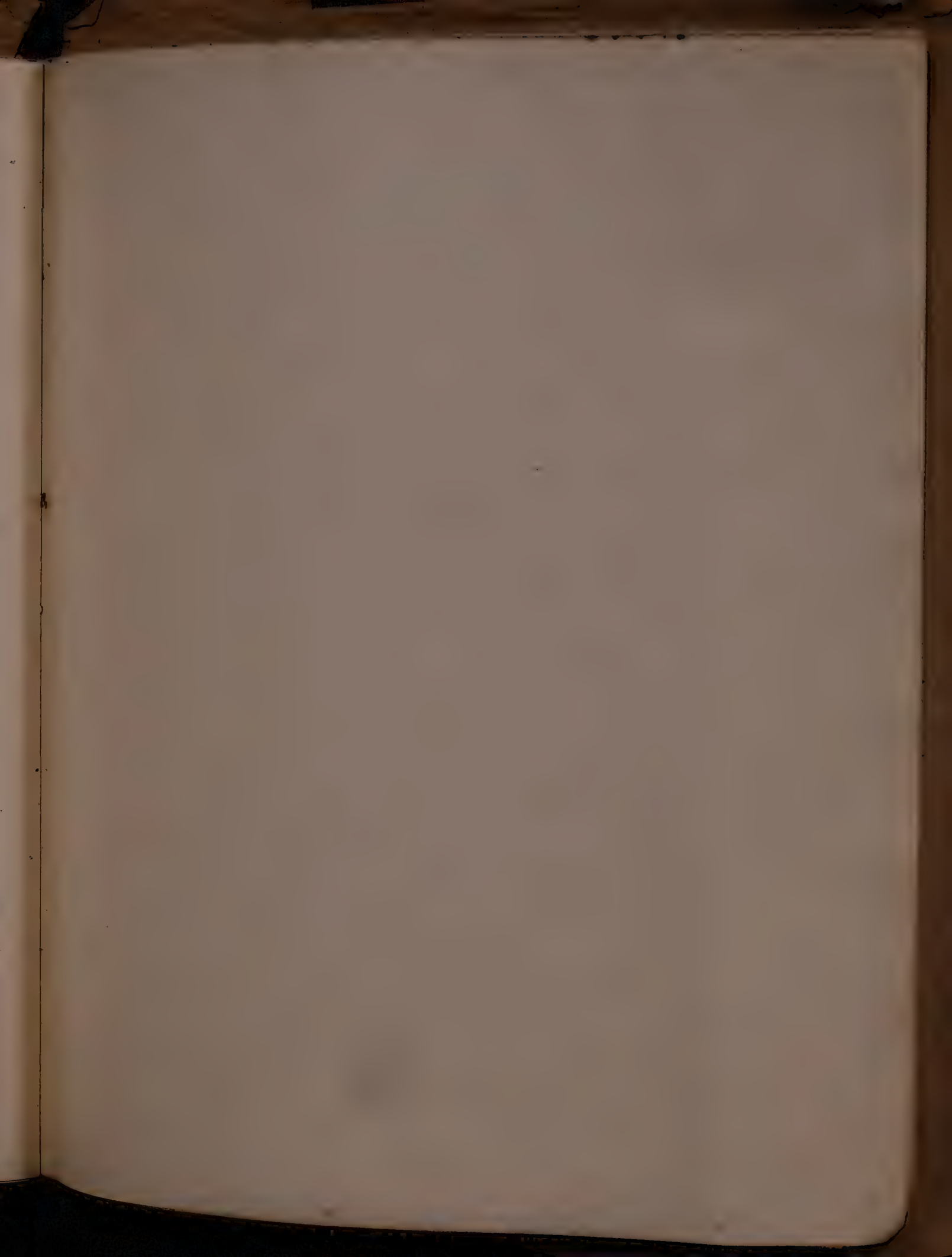
Osmunda

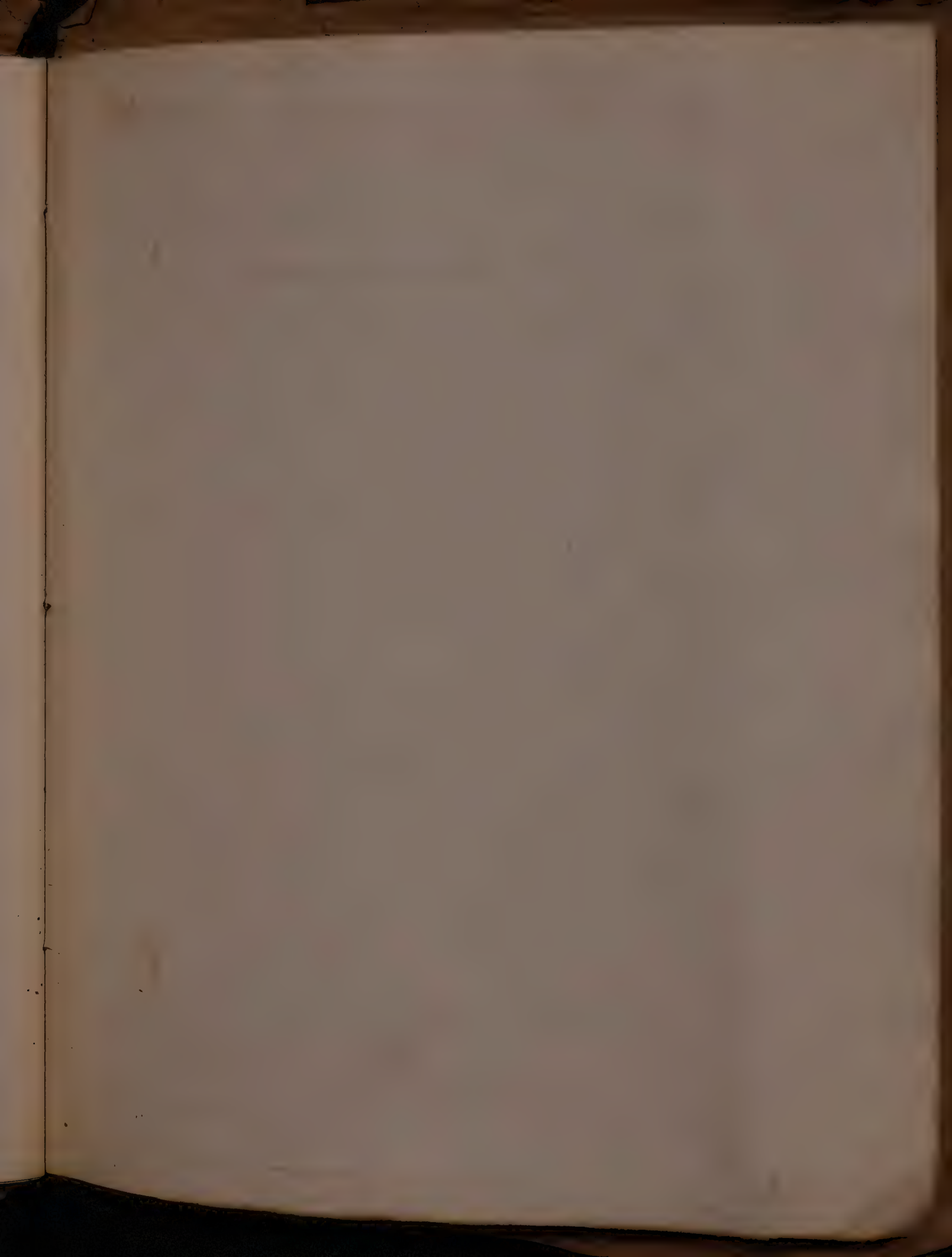
intertexta

Ophioglossum vulgatum

Botrychium fumarioides,

virginicum,





on rocks in the
Mammoth Cave
Kentucky

Cincinnati

Ohio



Zu

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The acer nigrum observed Mo
 Sep 26 - riding to Cullumville
 Variegated the woods on both
 sides of the river - supposed
 began to change the 20th -

^{In the quantity & brightness of the tint, more beautiful}
 Sep. 20 *Morus rubra* - leaves turning
 yellow (observed 26th) -

" " *Gymnocladus canadensis*
 leaves turning yellow falling
 Observed tree in garden

[Tag]
 Sep. 25 *Lillia glabra* - leaves turning yellow
 " " *Ulmus americana* - yellow

" " *Liriodendron tulipifera* yellow
 " " ^{See first page for description}
 " 20 *Cornus florida* - deep crimson
 " " ^{on 3rd page}

" " *Gladiolus triacanthos* - leaves yellow

Falling off

" " *Laurus cassia* - leaves yellow & red
 brown

Oct 1 *Platanus occidentalis* - yellow

" " *Carya amara* turning pale yellow
 tree in the lane at Estiford

" " *Fraxinus acuminata* - pale yellow

" " *Populus laevigata* - yellow

all from *Lillia inclusera* noted in walk
 at Cullum Oct 3d ^{supposed to be} at the date of publication

3

1838 Time of flowering
 May 30 *Carya taeniata* - in flower
 ✓ *Biddler field fence side*
 " *Rubus villosus*, blackberry
 ✓ (18) *Fagus sylvatica* - beech - in young
 fruit the 30th - in flower May 18th
 June 5 *Linodendron tulipifera*, in
 flower back of Burlington
 " 20 *Catalpa cordifolia* in bloom
 in town
 in 22 Hay harvest beginning
 July 6 Wheat harvest begins
 Sept 25 *Eupatorium - ageratoides* } walk
 day 10 " *Colutimicum* } Bank
 15 *Solidago canadensis* } - Pick
 25 Indian Corn gathered (field
 ✓ of Gen Taylor near Black
 Hill)

See next page for change of leaf

4/1858

Change of the Leaf (Continued)

Oct 22

Acrocarpum ~~turning yellow~~
~~tree~~ - (observed on river shore)
 leaves withering & falling off - the
 nerves & veins become red &
 with the bright red petioles
 form a beautiful contrast
 with the blueish-white under
 surface - a few of the leaves
 sometimes turn yellow & reddish
 The buds for the next year's flowers
 are now ~~in~~ very conspicuous
 in red clusters -

1839

The woods ~~the~~ the neighboring
 hills begin to change color
 the last 3 or 4 days of Aug to
 this year having a brownish
 hue from the change of
 color in the leaves of the
 Beech - This is unusually
 early, the weather has been
 very dry all the month of
 Aug &

Oct 3

The change of color was very
 gradual through Sept. to the first
 week in Oct. when the leaves
 of green yellow red & brown were
 strongly marked on the foliage cloth
 ting the body in the foliage & tinting

Saw first of Sept

Change of leaf - 1839

1839

- Oct - 1 *Quercus alba* - leaves dull red
— 6 — " — *macrophylla* - brownish yellow
— " — " — *castanea* - brownish yellow
all observed in River Birch hill the 6th -
— *Camellia* last in the woods
— 7 *Quercus imbricaria* - yellowish brown
— (1) *Carpinus virginiana* - yellow
(say the 10th)

Observed in Ok. lick woods 7th Oct.

Cornus florida in same wood, saw
several trees, with the leaves turned light
yellow, sometimes spotted with red & white
most of the trees had them of the
usual red colour -

11 / 61

1839 Commencement of vegetation in
(date of the vicinity of Cincinnati
or notices of dates of the first flowering
of plants)
Flowering (Calendarium Florae Flowering Calendar)

Feb. 26. Grapes - young shoots beginning
(in the yard) to look green (mild temperature)

March 2. Snow storm - snow 3 to 4 inches
on the ground - several
following days very cold -
Therm. on the 3rd & 4th at 4°

" 1st Acer eriocarpum - corner of 4th
4th & Race, observed in full flower
on the 1st - appears to have been
open for several days. On
the 11th. examine the Acer below Mill
creek bridge, the flowers have
been out some days & the young
fruit is visible from the ground
It may have been in flower
as early as the 1st day the 4th

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MS. 139
T. A

16 Cardamine rotundifolia
" Thalictrum anemoides
These two observed by Robt. Lee
back of his mother - a few days
after I saw many of both in flower
on the dam hill side -

17 Ulmus americana - in full flower
on the river bank & hill back

1839

March

of Stones - observed the 21st. (day 17th)

18 *Draba verna* - about 2 inch
high many in flower, some
lot observed 21st (day 18th)

" *Erigeria bulbosa* - Strushill
observed 21st & has been in flower
some days (day 18th)

" *Sanguinaria Canadensis* - Strushill
many in flower 21st (day 18th)

21 *Claytonia virginica* - found
2 or 3 in flower in Strushill

19th... *Salix Babylonica* becoming
green in the lots about town

21 *Desmodium illinoense* leaves expanding
-ing from the buds of young trees
on Strushill side

24 *Erigeron bitorratus*, found
but once in flower back of Mr.
Lees on the 21st. day in flower
the 24th

24 *Hepatica triloba* in flower in
the garden

27 *Populus laevigata* - in flower in
the garden & showing its flowers on
the hill above the reservoir on the 27th

1837

- March 28 *Erythronium albidum* - in flower in front of the house
- 29 *Acer rubrum* - tree corner of Baker's alley & vine street in flower
- " " *Ulmus fulva* - in flower on Stone hill ^{March 31} ~~April 1~~ - day 29th
- " " *Leptomeria diphylla* - Stone hill ^{March} ~~April 31~~ - day 29th
- " " *Dentaria laciniata* - Stone hill ^{March} ~~April 31~~ - day 29th
- April 1 *Sugar maple (Acer nigrum)* becoming green - this with the Buckeye & the process & fruit of the *Ulmus americana* are the first green look to our crowded hills - The buckeye is the first tree that expands its leaves; some observed to day have the leaf - lets 1-2 in long ^{March} ~~April 31~~ Stone hill
- " " *Dielytra caucullata* - in flower Stone hill
- April 1 *Corydalis aurea* - Stone hill 31st
- " " *Phlox divaricata* - Stone hill 31st
- 31 March - day April 1

1839

yellowish

The first green look of the Sugar maple
is from the enlarged & spreading scales
of the bud & the appearance of the
flowers - these are seen before the
leaf - the inner scales are $\frac{1}{2}$ to 1
long, tipped with brown at the apex

Apr 1 *Thalictrum dioicum* - some in
flower March 31. Stonehill Bay

" *Saxifraga virginica* - in flower
in garden this - probably several
days before on the hill

April 4 Peach & plum trees in full bloom
" " *Saxifraga virginica* - in full bloom on Stonehill

" 3 Mill April 5 - day April 3 -

" 3 *Viola cucullata* - Stonehill
on the 5th (day 3)

" 5 *Meconopsis diphylla* - Stonehill

" " *Trillium sepium* - do

" 7 *Urtica grandiflora* - appear
in flower this - day 7th Stonehill

" *Traximus quadrangulata*
some in flower this 5th on
Stonehill - day 7th

" 6 Pear tree in yard in flower

2 *Pulmonaria virginica* - in

2 flowers for some days Riddle's
April 7th - day April 2

1839

April 4

- Cercis canadensis* - on hill at
 Brighton house Apr. 7 - have
 been in flower Sunday, day 4th
- 7 *Viola pubescens* - a few in
 flower - Middle, thick set bank
- 7 *Urtica dioica* (Chenopodium)
procumbens - a few in flower
- 7 *Ranunculus abortivus* -
 do. - *septans*, Stones hill
- " *Caprilla blanda* - pastures -
- " *Carpinus americana* - at Middle
- " *Racemosa* - { flower in
 garden
- " *Gonolobus* - {
- 10 Apple trees in bloom in garden
- 11 *Collinsia verna* in garden
 with full flower Stones hill 13th
- 8 *Polemonium reptans* in garden
 (day the 8th)
- 10 *Ostrya virginica* - (day 10th)
 observed 13th, Stones hill
- 8 *Senecio obovata* - Stones hill, day 8th
- 6 *Leostedtanaxaceum*, was in
 flower the 6th at Mrs. L -
- 10 *Delphinium tricornis* - many
 in flower - Stones hill 13th - day 10th
- 13 *Stellaria pubera*, Stones hill
- 9 *Fraxinus americana* - next
 the apple orchard beyond Stones
 hill - nearly out of flower 13th
 (day 9th)

1839

Apr 12 Lilac in flower in garden.

" 11 Arabis laevigata Stoneshill - 13th

" 13 Asculus glabra - on the river bank
near Stone house the 13th day

" 15 Red plum in flower in the yard

" 18 Uva-ursi triloba - Papaw

" 18 Fagus sylvatica

" " Dentaria diphylla

" " Trillium erectum

" " Leontice thalictroides

" 22 Pyrus coronaria - Mr. Jones yard

" " Cornus florida - nearly in bloom

the 18th day 22

May 1 Tradescantia ^(virginica) ~~(eximia)~~ in flower
in garden

Apr 30 Robinia pseudo-acia - in flower
in town

" 28 Cerasus virginiana - in Mr
Jones yard.

" 28 Asculus flava - going out of
flower on hills beyond reservoir May 5

May 1 Podophyllum peltatum - petals
falling off - 5th day - 1st -

4 Oalis violacea (seen 5th)

Juglans nigra - nearly in bloom

10 the 5th day 10th

3 There was frost on the morning

Asculus
glabra
near
Stone
house

1839 of the 3^d & in the Country ice - the
young shoots of the grape vine were
killed in the garden

- May 1 *Morus rubra* - reservoir hill 5th
int. been in flower say 1st
- 8 *Nemophilapaniculata* - in garden
- 12 *Gymnocladus Canadensis* - in flower
in the garden
- 8 *Liriodendron tulipiferum* - tree
in lot next the grave yard, say 8th
- 11 *Carya laciniata* - Riddle's bog
observed 14th
- 12 *Smilax herbacea* - Riddle's
edge of bog (observed 14th)
- 6 *Phacelia fimbriata* - Riddle's thicket
seen 14th - say flowers 6th
- 16 *Menispermum Canadensis*
- 14 *Rubus villosus* - back of Newport
say 14th

1839

- May 5 *Orehis spectabilis* - out of flower
the 16th back of Newport - day 5th
- " 10 *Camelina sativa* in flower day 10th
gt 16th back of Newport
- " 14 *Hydrophyllum virginicum*
" " " *Canadense*
- " 20 " *macrophyllum*
- " 18 *Poa pratensis*
- " 22 *Avena elatior* - Licking bank
- " " *Scirpus pendulus*
- " 17 *Zizya cordata* - day 17th
- " 22 *Houstonia pubescens*
- " 22 *Catalpa cordifolia* - full flower
25th, tree near Mill creek
- " 22 *Nuphar advena* - mill creek
pond 25th - day 22
- " 25 *Leonurus cardiaca* - Stone hill
- " " *Anemone virginiana* - "
- " 22 *Ruellia strepera* - day 22
- " 29 *Impatiens pallida* - Burnet, west
- " 26 *Mitchella repens* (day May 26th)
- June 5 *Melanthium virginicum* - 7 miles
on Madison road
- " 1 *Spiraea aruncus* (day June 1st)
- " 2 *Smilax pedunculata* - day June 2
- " 16 *Filix glabra* - seen 20th
on Duck creek road

- 1839
 June 28 *Cypripedium virginicum* - in flower
 " " *Chenopodium Botrys* - " "
 " 21 *Saururus cernuus* - (say 20th obs. 28th)
 " 21 *Achillea millefolium* - say 22 - obs. 28th
 " 24 *Asclepias incarnatum* - say 24 - obs. 28th
 " 16 " *Syniaca* - obs. above this date

- 1840
 Feb. 26 *Acer eriocarpum* - in full flower
 below Mill Creek bridge Feb. 29 say 26
 " 29 *Ulmus americana* - in flower March 1st. in our streets
 " 28 *Erigeron bulbosus* - many on Stone hill
 " 28 *Grass* - becoming green
 " 27 *Lilac*, *Gorseberry*, & *Weeping Willow*
 becoming green

- March 5 *Hepatica filica* - in flower in the garden
 " 5 *Arabis rhomboides* - plants from Stone hill
 put in the garden on the 29th and open
 " " *Caprilla auripartita* - on the hills back of the house
 " " *Sanguinaria Canadensis* - seen in flower by
 " " *Malictium anemoneoides* - B. Warden
 " 9 *Populus terigata* - in budding ground
 " 26 *Dentocissaria* - (28th Stone hill)
 " 24 *Erigeron bitorquatus* (obs. 28th)
 " 24 *Jeffersonia diphylla* (obs. 28th)
 " 28 *Dicentra cucullata* - Stone hill
 " " *Malictium divicum*
 " 30 *Urtica grandiflora* - (obs. 28)
 " 28 *Viola cucullata*
 " 30 *Meconopsis diphylla* (obs. 28th)

1840

March 30 *Acer nigrum* - Down in Passaic and Stone
hill ~~day 30th~~ 28th (day 30th.)

" 28 *Draba verna* - just in flower in Passaic to 2 in
high, ~~as far as~~ in Loring's lot -

" " *Corydalis aurea* - Stone hill

Apr. 1 Peach & Plum trees in flower in the
lots about town - ^{onward for the last 3 days} weather cold & dry of

" 6 Cherry trees in bloom in yard

" 9 Apple trees - full bloom do -

Progress of vegetation as observed in 1842 at Cincinnati

1842

Febry 12 *Acer eriocarpum* - observed the flower
fully open at the corner of 40th Pass
on the 12th - (~~day the 10th~~)

" ~~12~~ *Erigeron bulbosa* - Febr. 10th

" 10 *Cardamine verticillifolia* var. B
These two were observed & collected
by Dr. Warden, on the 4th day the 10th
as very few could have open on the 4th

10 Young shoots of grass begin to look green
about the 10th of this month in the
yard (day 10th generally)

16 This morning at day break there was a thin
of snow on the ground - (Dr. Warden)

17 This morning the thermometer was at
6° above zero of clear & calm - this cold open

will retard vegetation — Brothers thermometer was but 1° above zero — Note the check to vegetation, how long it continued, giving a statement of the temperature by the thermometer — The whole winter until the 16th inst. was unusually mild; no ice made thick enough for the ice horses, until this cold spell, when it is 2 to 3 inches thick —

Feb 23 Snow all gone — mild for several days.
24 Frost out of the ground — on 25 & 26

mild rains. (Note the mean weekly temperatures particularly for the winter months.)

27 The Lilac buds, green & beginning to expand

This & the gooseberry buds were nearly gone on the 16th. when they were checked by the cold — (See Dr. Drake's obs. on such cold spells in his *Pict. of Ohio*) —

27 Gooseberry & Elder (*Sambucus*) throwing their leaves —

March 3 *Alnus Americana* in flower — in open field along the Licking — Also *Hamamelis virginica* just coming into flower but they were very young trees; it however shows the inequality in the time of flowering of the same species (See Feb 27th when it was observed in flower)

" 10 *Sanguinaria Canadensis* in flower

" 15 *Dentaria laciniata* — nearly full blown

" 15 *Corydalis acaulis* — nearly out day 15th
but not 2nd day 15th These three were seen by R. Lee on Stone Hill —

" 13 *Hepatica triloba* — in flower in the garden (see over)

" 10 *Thalictrum anemoneoides* on Stone Hill

" 10 *Isopyrum biternatum* — got by R. Lee 10th day 10th

" 14 *Claytonia virginica* — in flower in wood

" 15 *Erythronium albidum* found in flower

" 15 *Pulmonaria virginica* by Edward Lee

1842

- March 15 *Hepatica trilobata* (seen 19th at Highton dam.)
- " 18 Peach trees - in full bloom in town
- " 17 *Populus laurata* - in garden & at Mill
creek & aqueduct - observed 20th 21st when
the anthers had mostly fallen (day 17th)
- " 16 *Draba verna* - in Loring's lot - ground
white with them - seen the 21st day 16th
- " 20 Plum trees in bloom in the yard
- " 20 *Scorzonera* in flower - in Loring's lot
the 21st - looking green on Stoneshill
- " 24 *Carpinus americana* - near the Mill
creek & aqueduct, observed the 21st -
nearly in flower (day 24th)
- " 20 *Dielytra cucullaria* found by Ed. L. (24th day 20th)
- " 24 *Urtica grandiflora* (open in the garden)
- " 20 *Polemonium reptans* (garden)
- " 20 *Phlox dinaricata* (do)
- " 26 *Saxifraga virginiana* (do)
- " 28 *Senecio oblongata* (do)
- " 29 *Ranunculus repens* (in front yard)
- " 30 *Meconopsis diplylla* (in front of the house)
- " 31 Apple trees in bloom (in the yard)
- " 28 Cherry trees in bloom (in the yard)
- " 29 *Leontodon taraxacum* (do)
- " 23 *Felix discolor* (observed April 1st)
- April 1 *Arabis laurata* (Mill creek near Carthage)
- " 4 *Prunus americana* (in the yard)
- " 5 *Pyrus coronaria* (in Mr. Jones yard)
- " 8 *Phalaris coarctata* (in garden)
- " 10 *Podophyllum peltatum* (do)
- " 8 *Geranium maculatum* (do)
- " 12 *Acer glabra* - Riddle, Cape 14th day
- " 17 *Phacelia purbriata*, beginning to flower
the 14th day 17th Riddle, Cape
- " 11 *Osmorhiza longistylis* - 14th day 11th

1842

April 12 *Cornus florida* (nearly out of flower in Stony hill but 6th - James says he saw the flower that had been gathered a week before (May 12th)

" 16 *Aesculus flava* - Some in flower in Stony hill, but not fully open the 16th -

" 14 *Dentaria diphylla* - Stony hill the 16th petals falling (very 14th)

Tagus sylvatica - woods near Indian flower

" 15 falling off on the 20th (day 15th)

" 21 *Robinia pseud-acacia* - flower in the streets & field

" 30 *Trifolium pratense* - in bloom on Capillay

May 10 *Caryocarpus* - Stony hill side the 5th -

will be open in a few days, day 10th

May 1 *Liriodendron tulipifera* - back of Cornington

the 7th - been in flower day the 1st -

June 25 1 *Potentilla Canadensis* - seen the day the 1st -

July 1 Wheat harvest begins in the vicinity of Cincinnati - ^{the last year in June} Much recent cold weather till the 11th -

July 13 Beginning to cut oats back of Cornington

" 22 Corn (Zamays) observed in flower in several fields, in some places it was not yet in flower -

Progress of vegetation as observed at
Cincinnati in 1843 —

1843
March 23 This morning Dr. Ray's thermometer was at
only 1° (one degree) above zero. The month
so far has been unusually cold - vegetation
has not begun, except some bulbous
plants in the garden, tulips & Narcissus
which in some milder weather last
month shot up leaves about an inch
above ground. The grass in the yard shows
no sign of growth, being as dead as in
winter. (The Comet's tail distinctly vis-
ible for several nights past, the nucleus
not seen by the naked eye.)

April 7 Grass in the yard beginning to look green.
" " Erigeron bulbosa found 3 plants in flower
on Tombs hill the 6th (say 7th).
" " Acer dasycarpum - beginning to be in
flower, corner of 4th & Race Streets - also the
tree in the road side below Millersack a
few flowers open on the 6th —

" 12 Hepatica triloba in flower in the garden.
" 15 Sanguinaria Canadensis in full
flower on hill beyond Wilders —
20 Dentaria laciniata 2 found a few
" Claytonia virginica nearly in flower
on warm hill side beyond Wilders
15th - say in flower on the 20th

1843

- April 22 *Urtica grandiflora* - in the garden
 " *Erythronium albidum* - hills west of Burnet
 24 Peach trees - in flower in the yards
 26 Strawberry & Currants - in flower
 " *Phlox divaricata* } open in the
 " *Dicentra cucullaria* } garden
 " *Trillium sepium* }
 27 *Pulmonaria virginica* } in the
 29 *Polonium reptans* } garden
 20 *Populus levis* - tree in College yard - has
 fruit in flower about a week. Say the 20th
 29 *Cereus canadensis* - in the Clark's garden
 29 *Capella Bursa-pastoris* - in the yards
 29 *Acer Negundo* - on Mill creek bank
 28/29 *Viola cucullata* - garden & Mill creek
 29 *Hydrastis Canadensis* - garden
 29 *Viola pubescens* - garden
 29 *Mitella diphylla* - garden
 29 *Plum* ~~tree~~ *Prunus* in Colper - in the yards
 May 1 *Dianthus plumbeus* - in the yard (full
 " " Cherry trees (some) in do (very full of flowers)
 " " Pear tree - in do (very full of flowers)
 " 3 Apple trees - in do (another year)
 " 5 *Geranium maculatum* - in do
 " 3 *Collinsia verna* - in do (3)
 " 4 *Ranunculus repens* - in yards
 " 5 *Leontodon taraxacum* - do

1843

- May 6 *Trillium erectum* - ^{flowered in} in the garden
 " " *Prunus Americana* - " " yard
 " " *Lilac* (*Syringa vulgaris*) - " " garden
 " 5 *Viola Canadensis* - " " " "
 " 6 *Geranium maculatum* - " " " "
 " 14 *Pyrus Cornaria* - ^{Crabapple} in yard
 " 13 *Cypripedium pubescens* - in garden
 " 10 *Phalangium esculentum* - in garden
 " 10 *Podophyllum peltatum* - in do
 " 13 *Pyrus Cydonia*, Quince - in garden
 " 15 *Viburnum opulus* - Snowball -
 " " *Hydrphyllum appendiculatum* - garden
 " 16 *Phacelia fimbriata* - do -
 " 12 *Cornus florida* - the 18th. in Darklick woods
^{beginning to flower about a week before 12th}
 " 14 *Viburnum prunifolium* - Blackhaw
^{in Darklick woods the 17th}
 " 15 *Crataegus coccinea* - var. ^{mollis?} in
^{Swampy field on the river}
 " 17 *Cerasus Virginiana* - Wild cherry
 " 14 White - Black, ^{beaked} & Laurel oak
^{in flower in Darklick woods 17th day 18th}
 " 15 *Aesculus glabra* - Stinging hickory - ^{beginning} in
^{bank 17th day 15th}
 " 22 *Robinia Pseud-acacia* - ^{Street} Elm -
 " 27 *Rubus villosus* - ^{Common} blackberry
^{back of Newport}
 " 24 *Carya tomentosa* - ^{Shell} bark hickory
^{seen 27th back of Newport}
 June 20 *Bignonia catalpa* - ^{in full flower} front of ^{field} woods
^{beginning to flower}

Progress of vegetation at Cincinnati

1844

Feb. 22 Grass beginning to look green in our yards
 Feb. 29 *Acer crivocarpum* - flowers open on the tree corner 4th & Race

March 6 *Erigeron bulbosus* - ~~Stones hill~~ ^{Donaldson} hill by Miss
 12 *Ulmus americana* trees on the street in flower

Note - The latter part of Febry. & thus month to the 17th. the weather was very mild in that no traces of cold, & vegetation regularly progressing. - On the 17th. there was a change, & in the morning of the 18th. the snow fell about an inch deep. On the 18 & 19th. I. Lea thermometer at 26°, & 8° Days at 20° at sunrise. The peach buds in ^{some} ~~many~~ places have been killed though they were not open. - Vegetation was checked till the 23rd when it became much milder

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On the 26th. went to Stones hill & found ^{the} ~~the~~ plants in bloom, supposed from them to have been in flower at the date put down

- March 12 *Canadensis retundifolia* (Arabis)
 15 *angustata Canadensis*
 17 *Malicetrum anemonoides*
 23 *Aspyrium biternatum*
 23 *Claytonia virginica*
 25 *Oxycaria latifolia*
 27 This morning the Martins made

- 18 their appearance & were twittering about -
- Ma The frogs were heard piping by night -
- " test at Mr. Oakville (Covington) in
- " 1844 11th. of this month (March) -
- " ~~March 20~~ ~~Express~~ ~~On~~ ~~past~~ ~~in~~ ~~the~~ ~~garden~~
- " March 30 This morning the roof of the house, was
- " with snow, the weather having been
- " cold yesterday with rain from the N.W.
- " April 1 Monday the weather becomes warm
- " April 3 *Utricularia grandiflora* (in the garden)
- " 4 Peach trees, in the garden in full bloom
- " 5 Thermometer at noon in shade 79°
- " the 5th. at 80° at 10 o'clock
- " 6 *Phlox divaricata*
- " *Dielytra cucullata* } in the garden
- " *Fritillaria sepia*
- " All the Plum trees in the yard, Damsons,
- " Copper, Gage & Large blue plum, in full
- " bloom -
- " 7 The Pear in full flower, & very full of fruit
- " 8 Cherry trees in the yard in full flower
- " 10 *Negundo fraxinifolium*, Or. elder, in
- " flower in Mr. Jones yard -
- " 11 *Pulmonaria virginica* - in the garden
- " 12 *Polemonium reptans* - do
- " *Viola cucullata* - do
- " 13 Gooseberry in flower - do
- " 14 *Cryptotaenia procumbens* - do
- " 15 Currants - in flower - do
- " 16 *Ranunculus repens* - front yard
- Jan

- 1844
 April 11 *Meconopsis* is *diphylla*, front of the house
 .. 12 *Cottinus* *verna* - (garden)
 .. 11 *Senecio* *obovata* (ac / 86°
 .. Thermom: at 85° (Mrs. Leas) 12th. at
 12 *Cercis* *Canadensis* - Mr. Pries yard
 13 *Trillium* *erectum* (garden)
 .. *Mitella* *diphylla* (" /
 .. 10 *Acer* *saccharinum* - everywhere in
 the woods, going to Chertage & look as
 if in flower for some days, Dec 13th.
 13th. Day 10th -
 .. 15 *Asculus* *glabra*, a few in flower
 Dec 13th. along Mill Creek, Day 15th
 .. 15 *Cornus* *florida*, nearly open, Dec 13th
 Day 15th -
 .. 15 *Ptelea* *trifloria*, along Mill Creek
 Dec 13th. Day 15th.
 .. 15 *Staphylea* *trifolia*, in Clark's garden
 .. { *Galthia* *palustris* - *Eotis* prairie
 .. 9 Dec 13th. have been in flower
 some days, Day 9th -
 .. 13 *Senecio* *aurea* - *Eotis* prairie 13th.
 .. 13 *Prunus* *Americana*, in full flower
 along Mill Creek 13th & in the yard
 but not quite so much out
 .. 15 *Arabis* *laevigata*, Dec 13th. Day 15th
 .. 13 Apple trees - full bloom in the yard & in the
 country. The tree next the kitchen has very
 - 14 *Lilac* in flower in the garden, Dec 13th.

1844

April 13 *Ostrya virginica* - Donnanary
" 7 ⁴ *Thymus* ^{Miller's} *catkins*
Leontodon saxatilis - Donnanary
in full flower the 13th. Day 7th

" 14 *Ranunculus recurvatus* - in garden

" " *Lilium* trees - in full bloom in garden

" " *Pyrus coronaria* in Mr. Jones' yard

" 17 *Trillium erectum* - in the garden

" 20 *Geranium maculatum* in the garden

" 23 The Cat Bird first heard & seen in the yard

" 23 *Cypripedium pubescens* - in the garden

" 25 *Robinia Pseud-acacia* full flower in the yard

" 26 *Tradescantia virginica* - in garden

May 1 Raspberries in flower in garden

" 2 From this day to the 6th. both inclusive

the wind was very high, with dark clouds, some thunder & rain, the temperature to cool as to make fire necessary - no frost - It is uncommon to have such a continuation of high winds -

" 5 Observed for the first time that the young shoots of the Pear tree in the yard were dropping some of them blackening & dead - No sign of insect can be discovered as the injury must have commenced several days perhaps a week before it was observed - Examined them in Mr. Jones' yard on the 7th found

three of his trees beginning to be affected
in the same way, very few of their
young shoots being as yet diseased.
The disease is generally in the country
May 3 *White poplar* in full flower at *Abnisko*
old farm - seen by *Dr. E. C. Johnson* the
7th. had been out some day, day 3 -

" 8 *Blackberry* (tall) plenty in flower on the
10th. about *Shadblow*, day 8th -

" 10 In an excursion to *Ludlow* to
day saw many of the apple trees,
" & the few *Wild Cherry* trees I saw,
stripped of their leaves, by a kind
of caterpillar, that makes its
web in the forks of the limbs. The
web is closely woven all about the
forks & appears very strongly
made. Mr. *Henned*, large orch.
- and over the river & others I have
heard of, are stripped entirely
of their leaves, & all their fruit is
destroyed -

" 16 *Spiraea pulchra* - a few flowers
beginning to open at *Ludlow* on the
10th day 16th -

" 17 *Hydrophyllum macrophyllum* - seen
" 18 " *virginicum* - (do)

" 19 *Syrnandra grandiflora* - seen by Mr. *Clark*
the 21st day in flower the 22nd
" 25 *Catalpa* - tree in *Dr. Clark's* yard of the in front
of *Quilford*, was in flower the 25th
" 31 This month has been remarkable for
high winds, but little clear weather, &

May

much rain, eight inches having fell by
Mr. Lea's account. Strawberries first brought
to market about the middle of the month, in
great plenty & large size, at the end of the
month, selling at 4 to 10 cents per quart.

31 Aphis - Today found many of the young
shoots of one of the peach trees, densely covered
by thousands of a species of Aphis, their tubes
inserted in the tender bark & their bodies stand-
-ing out erect, ^{so} closely packed that a pin
could not have been inserted between
them. They were (the full grown ones) of a
black color, with a line of punctures (or
indentations) on each side of the back,
& two processes ~~from~~ ^{near} at the end of the
abdomen. The young ones are of a brown
color. Many ants ^{were} very busy running
up the tree & among them. The infec-
ted branches showed no injury re-
ceived from them, except a slight cur-
ving of the youngest leaves at the end
of the shoot. The full grown leaves
looked healthy & unaffected - (side)

June 2 Tilia glabra in flower. Mr. Jones' vine.
3 Anthonis cotula, Observatory hill
Wheat harvest the last week in June
29 Blackberry beginning to ripen & some
bit to eat (Walk to Oaklick)

A rainy
month
See

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